

EVT-0100TB

10Mbps Ethernet Converter

EVT-0100TF

10Mbps Ethernet Fiber Converter

EVT-0101TF

10Mbps Ethernet Fiber Converter, Single Mode

User's Maunal

EVT-0100TB 10Mbps Ethernet Converter

EVT-0100TF 10Mbps Ethernet Fiber Converter

EVT-0101TF 10Mbps Ethernet Fiber Converter, Single Mode

1. Overview

IEEE802.3 10Mbps Ethernet supports various type media for network connection such as 10Base-2, 10Base-T and 10Base-FL. The media converter is used to convert one type media signal to other type equivalent that allows multiple type segments connect easily and inexpensively. The converters can be used as a standalone unit or as a slide-in module to the 19" converter rack(up to 10 units) for use at a central wiring closet.

2. Model Description

Model	Connector Type
EVT-0100TB	RJ-45 ↔ BNC
EVT-0100TF	RJ-45 ↔ 820nm ST multi-mode
EVT-0101TF	RJ-45 ↔ 1300nm ST single-mode

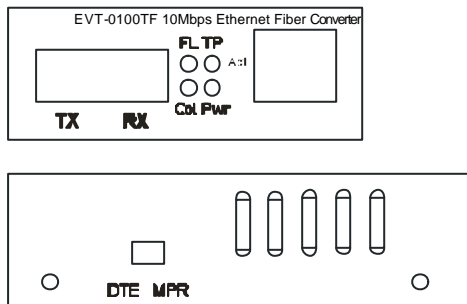
3. Checklist

Before you start installing the Converter, verify that the package contains the following:

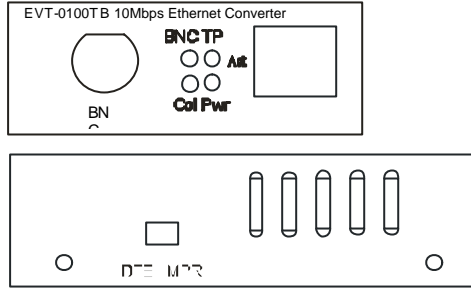
- The Converter
- AC-DC Power Adapter
- This User's Manual
- T-Connector(for EVT-0100TB only)

Please notify your sales representative immediately if any of the aforementioned items is missing or damaged.

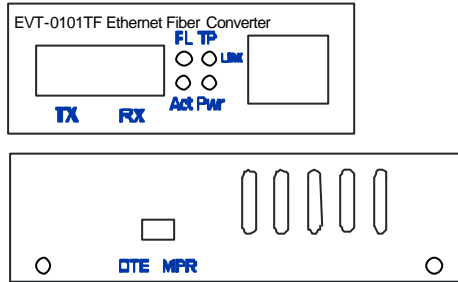
EVT-0100TF 10Mbps Ethernet Fiber Converter Front and Side



EVT-0100TB 10Mbps Ethernet Converter Front and Side Panel



EVT-0101TF 10Mbps Ethernet Fiber Converter Front and Side Panel



4. Installing the Converter

For as a standalone unit:

- ⇒ Verify the AC-DC adapter conforms to your country AC power requirement and insert the power plug
- ⇒ Connect the media cable for network connection

For as a slide-in unit:

- ⇒ The slide-in Media Converter and Converter Rack should be supplied only from the same source, both Media Converter and Rack are built to match on dimensions, DC jack, receptacle and power safety
- ⇒ Turn off the 19" converter rack power
- ⇒ Ensure that there is no activity in the network
- ⇒ Locate +5VDC power jack on converter back, carefully slide in and plug to 19" rack +5VDC power receptacle
- ⇒ Connect the media cable for network connection
- ⇒ Turn on the converter rack power, the Power LED will light up

Fiber Port:	Attach the fiber cable. The Tx, Rx fiber cable must be paired at both ends
TP Port:	Attach UTP Cat. 3 or 5 cable to TP port MPR : To a Hub or Repeater DTE : To a workstation or NIC
	Slide switch "DTE" / "MPR" is on the side panel. Default: MPR
BNC Port:	Attach T-Connector to BNC port and connect the RG-58 coaxial network. Ensure the coaxial cable/segment is terminated at both ends properly

Note:

- a. Use the straight-through cable.
Cable pin-outs for RJ-45 jack 1, 2, 3, 6 to 1, 2, 3, 6
- b. **MPR(Default):** To a Hub or Repeater
DTE : To a workstation or NIC
(DTE pin-outs are crossover on board already)

Configure the MPR-DTE slide switch on the side panel for cable connection to a Hub or NIC(Network interface Card).

5. Connecting to 10/100Mbps NWay Device

Converter Model	10/100 NWay Inter-operating
EVT-0100TB	10/100Mbps is auto-sensing and comes to 10Mbps Half-duplex
EVT-0100TF	10/100Mbps is auto-sensing and comes to 10Mbps Half-duplex
EVT-0101TF	This EVT-0101TF does not support NWay 10/100 Auto-Negotiation protocol. It must force the remote NWay 10/100 partner to 10Mbps speed. Make sure that TP Link LED is ON when the remote NWay device is connected.

6. LED Description

EVT-0100TB 10Mbps Ethernet Converter:

LED	Color	Function
BNC Act	Green	Blinks when BNC traffic is present
TP Link/Act	Green	Lit when TP connection is good Blinks when TP traffic is present
Collision	Amber	Blinks when any collision is present
Power	Green	Lit when +5V power is coming up

EVT-0100TF 10Mbps Ethernet Fiber Converter:

LED	Color	Function
FL Link/Act	Green	Lit when Fiber connection is good Blinks when any FL traffic is present
TP Link/Act	Green	Lit when TP cable connection is good Blinks when any TP traffic is present
Collision	Amber	Blinks when any collision is present
Power	Green	Lit when +5V power is coming up

EVT-0100TF 10Mbps Ethernet Fiber Converter:

LED	Color	Function
FL Link	Green	Lit when Fiber connection is good
FL Act	Green	Blinks when any FL traffic is present
TP Link	Green	Lit when TP cable connection is good Blinks when any FL traffic is present
Power	Green	Lit when +5V power is coming up

7. Technical Specifications

EVT-0100TF Ethernet Fiber Converter

- **Standards** : IEEE802.3 10Base-T/10Base-FL
- **TP Port** : RJ-45 jack with a slide switch for "MPR" or "DTE" selection
- **Fiber Port** :

The 10Mbps Fiber Transceiver:		
ST multi-mode	820nm	Default

- **UTP Cable** : Cat. 3 or 5 cable up to 100m
- **Fiber Cable** : 50/125, 62.5/125, or 100/140mm multi-mode

10Mbps Fiber Cable Limitations:		
Fiber	Multi-mode:	2Km

- **Data Transfer Rate** : 10Mbps at half-duplex
- **LED Indicators** : FL Link/Act, TP Link/Act, Col, Power
- **Power Requirement** : 1A@+5VDC
- **Ambient Temperature:** 0° to 50°C
- **Humidity** : 5% to 90%
- **Dimensions** : 26.2(H) × 70.3(W) × 94(D) mm

Note: Connecting to Router, Bridge, or Switch, please refer to the device's Technical Manual.

EVT-0100TB 10Mbps Ethernet Converter

- **Standards** : IEEE802.3 10Base-T/10Base-2
- **TP Port** : RJ-45 jack with a slide switch for "MPR" or "DTE" selection
- **BNC Port** : BNC connector
- **Cable and Distance** :
 - Cat. 3/5 unshielded or shielded twisted pair (UTP/STP) wire, maximum length 100 meters (328ft)
 - 0.2 inch diameter RG-58A/U, 50Ω(ohm) coaxial cable, maximum length 185 meters(607ft)
- **Data Transfer Rate:** 10Mbps at Half-duplex mode
- **LED Indicators** : BNC/Act, TP Link/Act, Col, Power
- **Power Requirement** : 1A@+5V
- **Ambient Temperature** : 0° to 50°C
- **Humidity** : 5% to 90%
- **Dimensions** : 26.2(H) × 70.3(W) × 94 mm(D)

EVT-0101TF-10Mbps Ethernet Fiber

- **Standards** : IEEE802.3 10Base-T/10Base-FL
- **TP Port** : RJ-45 jack with a slide switch for "MPR" or "DTE" selection
- **Fiber Port:**

The 10Mbps Fiber Transceiver:		
ST/SC multi-mode	820nm	Default
ST.S single-mode	1300nm	Optional

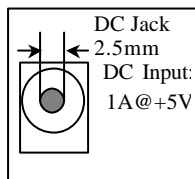
- **TP Cable** : Cat. 3 or 5 cable up to 100m
- **Fiber Cable** :
 - 50/125, 62.5/125, or 100/140mm multi-mode
 - 8.3/125, 8.7/125, 9/125 or 10/125mm single-mode

10Base-FL ST/SC Fiber Cable Limitations:		
Fiber Half/Full-duplex	Multi-mode:	2Km
Fiber Full-duplex	Single-mode:	10Km

- **Data Transfer Rate:**
10Mbps at half-duplex
20Mbps for full-duplex
- **LED Indicators** : FL Link, FL Activity
TP Link/Activity, Power
- **Power Requirement** : 1A@+5VDC
- **Ambient Temperature:** 0° to 50°C
- **Humidity** : 5% to 90%
- **Dimensions** : 26.2(H) × 70.3(W) × 94(D) mm

9. DC Power Jack and AC-DC Power Adapter

The DC jack's central post is 2.5mm wide, it conforms to the DC receptacle (2.5mm) on the 19-inch Converter Rack slot.



Keep the AC-DC adapter as spare parts when Media converter is installed in a 19-inch Media Converter Rack.

AC-DC power adapter

AC Input : 100~240VAC 50/60Hz

DC Output: 1A@+5VDC